TITLE: METHODS AND SYSTEMS TO ACCESS STORAGE OBJECTS
INVENTORS NAME: Thomas W. Lanzatella et al.
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100

110

REFERENCE
TO
OBJ

120

DETERMINE
OBJ
ORIGIN

126

PASS
THROUGH
TRANSLATED REF

122

REF
ABSOLUTE

NO

124

TRANSLATE
REF TO
OBJ

YES 130

RETURN
REFERENCE
TO OBJ

Fig.1

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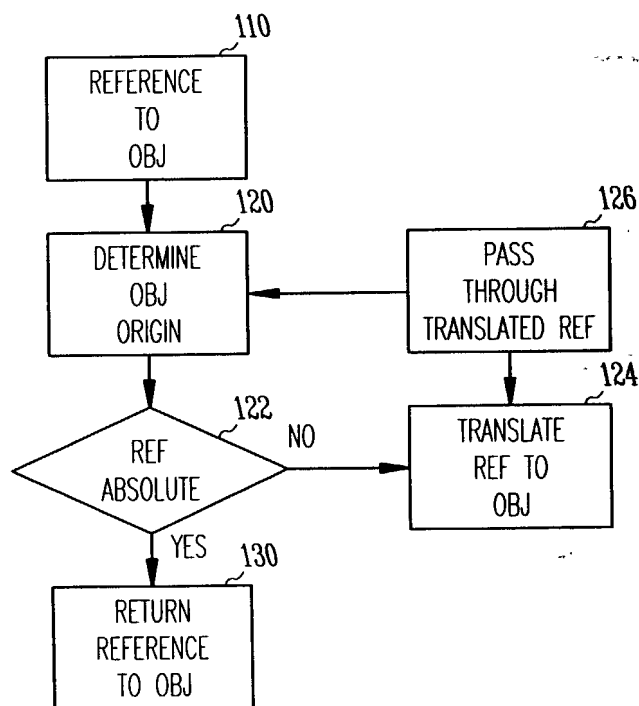DOCKET NO.: 1557.005US1

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200

212	210	220
INITIATE REF FROM API	RECEIVE OBJ REF	AQUIRE STACK ACCESS

214
INITIATE REF FROM CLIENT MODULE IN 2nd ENV

222
DETERMINE STACKE LEVEL IN 1st ENV

230
TRANSLATE TO RELATIVE EXT

224
DETERMINE OS AND FILE SYSTEM

232
RELATIVE IS ABSOLUTE

NO

234
PROVIDE OS AND FILE SYSTEM OPERATIONS

YES 240
ABSOLUTE REFS RETURNED

Fig.2

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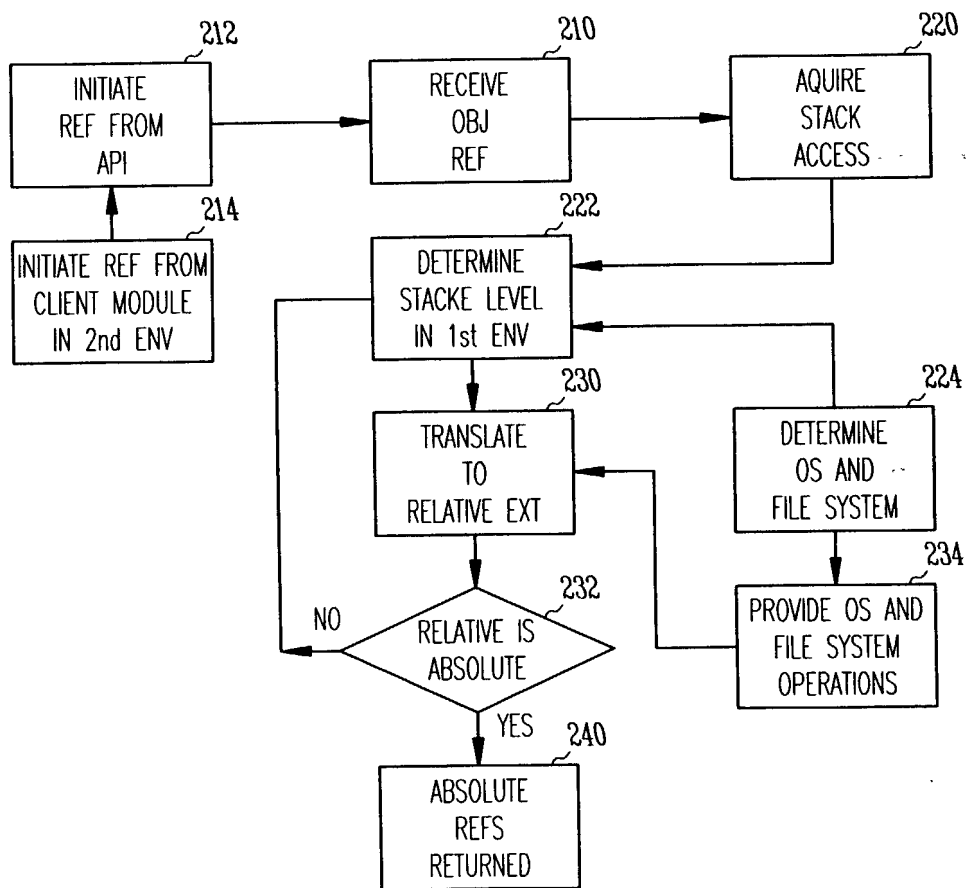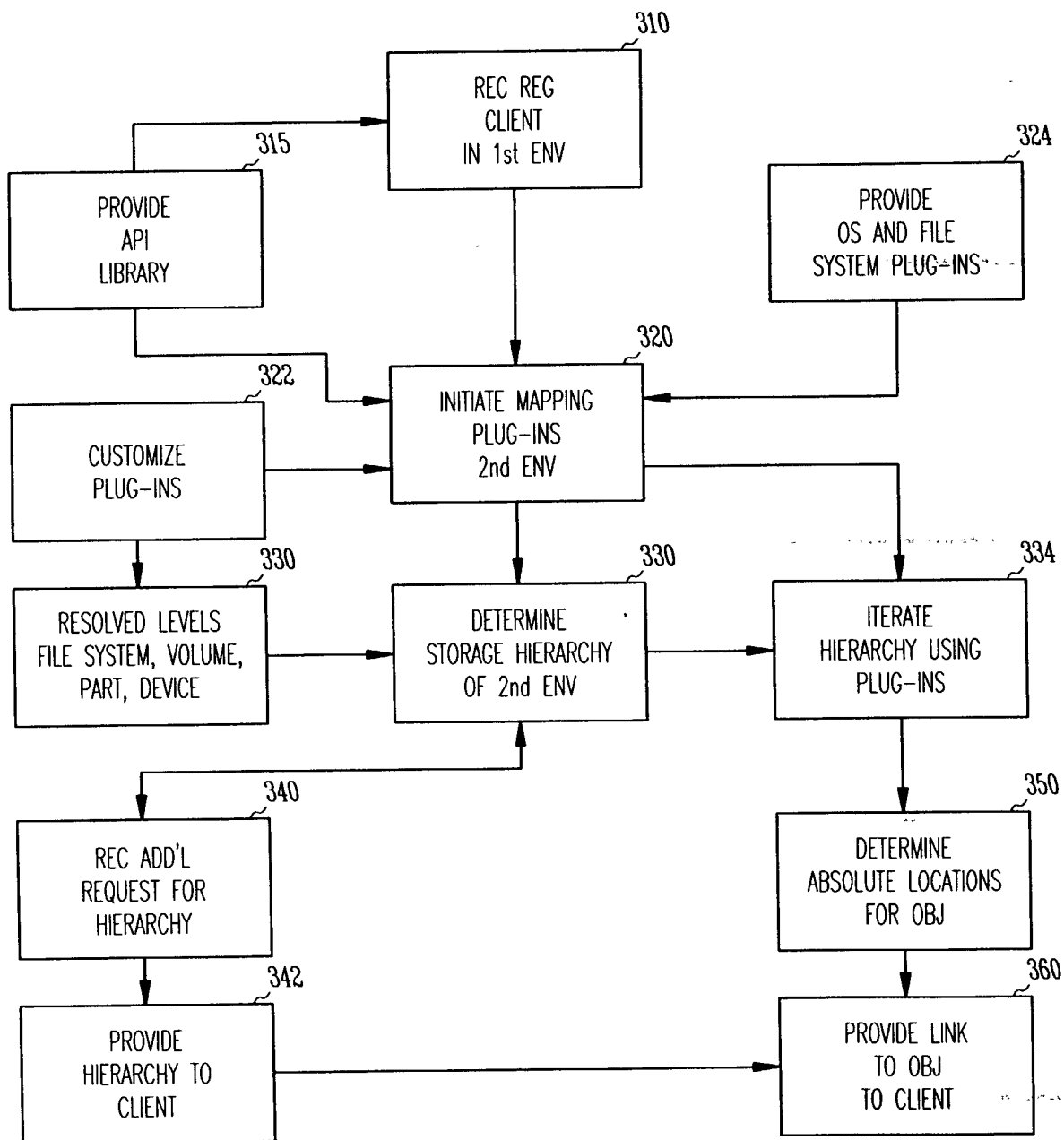DOCKET NO.:   1557.005US1

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300

310
```
REC REG
CLIENT
IN 1st ENV
```

315
```
PROVIDE
API
LIBRARY
```

324
```
PROVIDE
OS AND FILE
SYSTEM PLUG-INS
```

320
```
INITIATE MAPPING
PLUG-INS
2nd ENV
```

322
```
CUSTOMIZE
PLUG-INS
```

330
```
RESOLVED LEVELS
FILE SYSTEM, VOLUME,
PART, DEVICE
```

330
```
DETERMINE
STORAGE HIERARCHY
OF 2nd ENV
```

334
```
ITERATE
HIERARCHY USING
PLUG-INS
```

340
```
REC ADD'L
REQUEST FOR
HIERARCHY
```

350
```
DETERMINE
ABSOLUTE LOCATIONS
FOR OBJ
```

342
```
PROVIDE
HIERARCHY TO
CLIENT
```

360
```
PROVIDE LINK
TO OBJ
TO CLIENT
```

Fig.3

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400

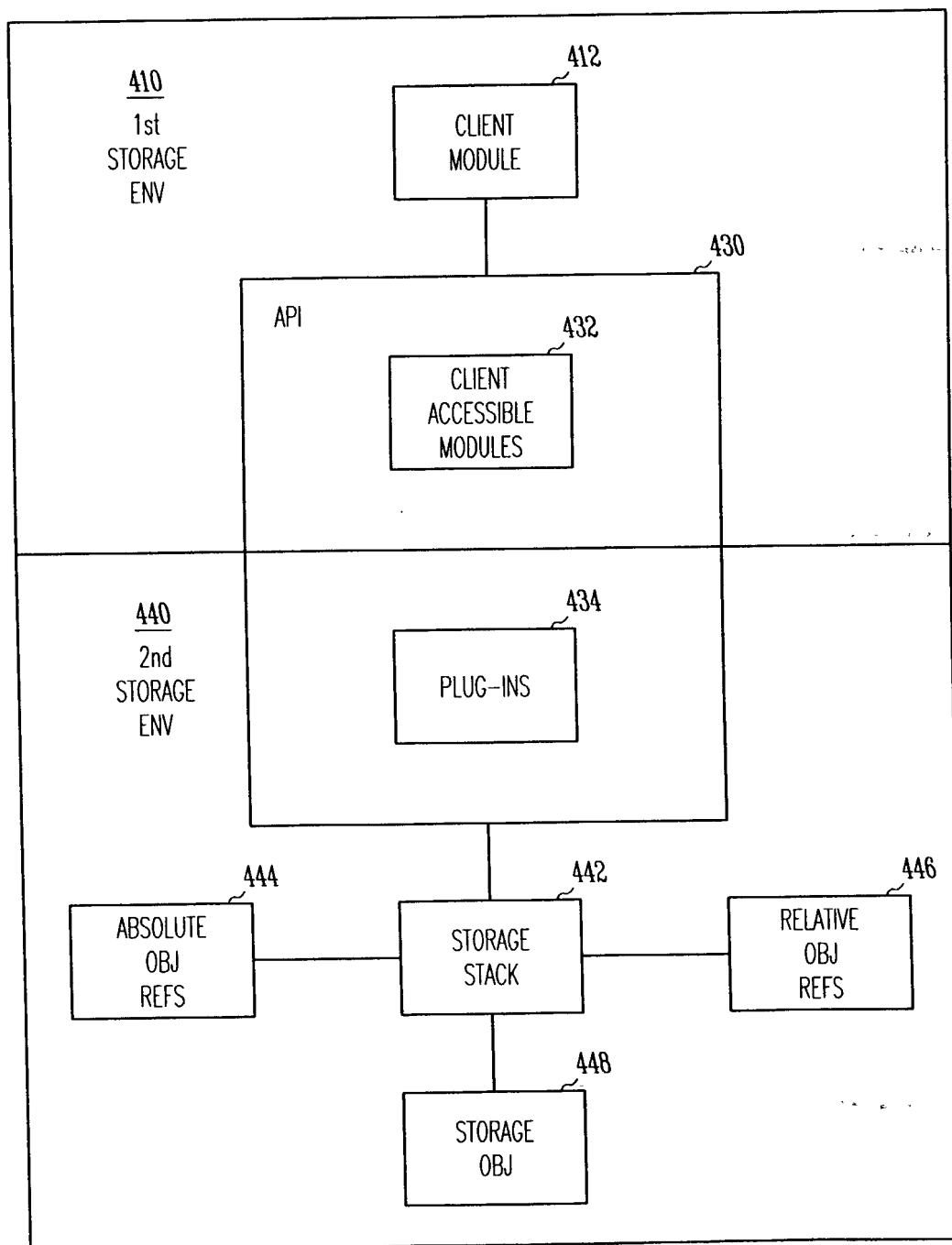| 410 1st STORAGE ENV |
|---|

412
CLIENT MODULE

430
API

432
CLIENT ACCESSIBLE MODULES

440 2nd STORAGE ENV

434
PLUG-INS

444
ABSOLUTE OBJ REFS

442
STORAGE STACK

446
RELATIVE OBJ REFS

448
STORAGE OBJ

Fig.4

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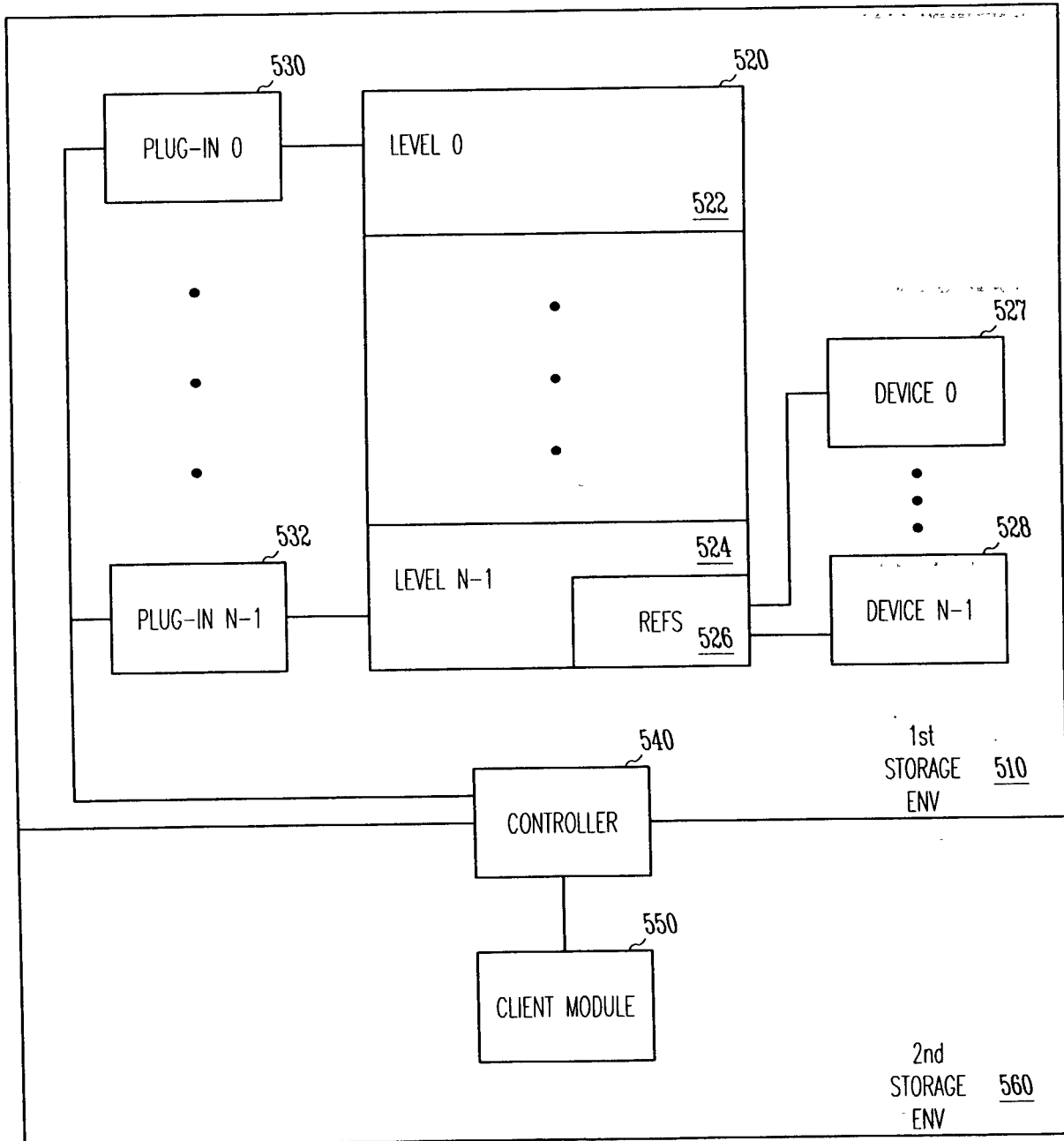DOCKET NO.:   1557.005US1

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500

Fig.5